

# Dang Minh Tran

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## EDUCATION

### York University

BSc in Computer Science

- Organizations/Awards: Honors Program, Undergrad Bursary, International Scholarship of Merit

Toronto, ON

Graduation Date: August 2024

## TECHNICAL SKILLS

**Languages:** HTML | CSS | JavaScript | TypeScript | Java | Python | C | SQL | Bash

**Frameworks:** Node.js | React.js | Angular.js | Bootstrap | Java Swing | Spring Boot | JUnit | MySQL | MongoDB | Docker

**Developer Tools:** Visual Studio Code | Git | Github | Eclipse | IntelliJ | Android Studio | PyCharm | Linux | Figma

**Others:** Web Development | Data Structures and Algorithms | Software Design | UI/UX | OOP | Database Systems | Operating System | CI/CD

## PROJECT EXPERIENCE

### Election Quiz | HTML, CSS, JavaScript, JQuery, Git, Github

- Created a web-based platform to help voters make informed decisions in the 2021 election, providing a valuable resource for civic engagement and participation.
- Developed a streamlined questionnaire using HTML, CSS, jQuery, and JavaScript, enabling users to answer a series of questions and receive personalized responses.
- Conducted extensive research on election candidates, issues, and policies, collecting and analyzing information from a variety of sources to provide a comprehensive and unbiased view.

### My Class Finder | HTML, CSS, JavaScript, SQL, Google Cloud SQL, Git, Github

- Developed the front end of the website using HTML, CSS, and JavaScript, ensuring a visually appealing and intuitive user interface.
- Created a database to store location data, such as buildings, lecture halls, and course codes, using Google Cloud and Google Cloud SQL, ensuring scalability and reliability.
- Integrated Google Maps API to enable students to quickly navigate to their classes, providing turn-by-turn directions and highlighting the shortest route.

### HomeForecast Canada | Java, JavaSwing, SQL, MySQL, JFreeChart API, WEKA API

- Developed a data analysis application using Java, utilizing Java Swing for the graphical user interface (GUI) design.
- Implemented SQL and MySQL to manage and store New Housing Price Index (NHPI) data, enabling efficient data retrieval and analysis.
- Integrated JFreeChart API to generate interactive charts and graphs, providing users with intuitive visualizations of New housing price index trends.
- Leveraged the WEKA API to develop machine learning models for forecasting NHPI trends, enabling data-driven predictions for future housing prices.
- Implemented the MVC architectural pattern to separate the application's logic, user interface, and data, promoting code organization, reusability, and maintainability.

### Tic Tac Toe Game | Java, JUnit, Android Studio, Git, Github

- Designed and implemented a Tic Tac Toe game for Android devices using Java and Android Studio development environment.
- Employed OOP principles to organize and structure the game's code, resulting in a maintainable and scalable application.
- Implemented a two-player mode using a turn-based approach.
- Conducted unit testing using JUnit Test to ensure code functionality and catch errors during development.

## WORK EXPERIENCE

### Learning Management System (LMS) Support Assistant

York University - Professional Learning, Faculty of Education

Toronto, ON

May 2023-Now

- Manage and maintain course content on Moodle LMS by utilizing HTML, CSS, Bootstrap, and JavaScript to create and customize various course content blocks.
- Collaborate with other faculty team members to identify and implement new features and functionality to enhance Moodle LMS's course content capabilities using Microsoft applications and project management tools such as Microsoft Teams, Excel, and Figma.
- Utilize the LMS database to perform course creation tasks, including creating course shells, adding users, and configuring course settings, using SQL queries and LMS administrative tools to ensure accurate and efficient course creation.

### Research Assistant

York University - Lassonde School of Engineering

Toronto, ON

May 2023-Now

- Conduct comprehensive testing and analysis of artifact traceability in machine learning repositories on GitHub based on MLOps and DevOps concepts.
- Utilize Git and GitHub for version control and collaborative development in a research environment.
- Conduct extensive data analysis using Python libraries and the team's Github repositories to derive insights and identify areas for improvement in artifact traceability.
- Create and maintain documentation of research methodologies, experiment results, and findings for future reference and publication.

### Information Technology Assistant

York University - School of Arts, Media, Performance & Design

Toronto, ON

September 2022-April 2023

- Assisted in installing and maintaining hardware, software, and network systems to ensure the proper functioning of computer equipment and devices.
- Provided technical support to end-users through troubleshooting and solving software and hardware issues.
- Maintained inventory of hardware and software assets and coordinated with vendors for procurement and maintenance.

## VOLUNTEER EXPERIENCE

### Peer Helper

York University - Lassonde School of Engineering

Toronto, ON

September 2022-January 2023

- Assisted first-year engineering students in their academic and social transition to university by providing peer mentoring and support.
- Engaged with students through various communication channels, including email, social media, and in-person interactions, to ensure timely and effective support.